



| DPA SERIES
PCB MOUNT



Features

- 16 Pin DIP SSR
- Ratings to 1 A @ 280 VAC
- SCR output
- Voltage or current-control input
- Zero-crossing (resistive loads) output

PRODUCT SELECTION

Control Voltage	120V	240V
3-32 VDC	DPA4119	DPA6119
10-35 mA	DPA4111	DPA6111

ORDERING OPTIONS

Series **DPA** - **41** - **19**

DPA

Load Current
41: 20-140 VAC
61: 20-280 VAC

Circuit Type
11: 10-35 mA DC
19: 3.5-10 VDC

Required for valid part number
 For options only and not required for valid part number

OUTPUT SPECIFICATIONS ⁽¹⁾

Description	DPA41xx	DPA61xx
Operating Voltage (47-63Hz) [Vrms]	20-140	20-280
Transient Overvoltage [Vpk]	400	600
Maximum Off-State Leakage Current @ Rated Voltage [mA _{rms}]	0.01	0.01
Minimum Off-State dv/dt @ Maximum Rated Voltage [V/μsec] (3)	500	500
Maximum Load Current [Arms]	1.0	1.0
Minimum Load Current [Arms]	0.025	0.025
Maximum Surge Current (16.6ms) [A _{pk}]	30	30
Maximum On-State Voltage Drop @ Rated Current [Vpk]	1.2	1.2
Minimum Power Factor (with Maximum Load)	0.5	0.5

INPUT SPECIFICATIONS ⁽¹⁾

Description	DPAx11	DPAx19
Control Voltage Range	-	3.5-10 VDC
Control Current Range	10-35 mA	-
Must Turn Off-State Current	1.0 mA	-
Must Turn Off-State Voltage	-	1.0 VDC
Typical Input Current @ 5 VDC	-	15 mAdc
Nominal Input Impedance	-	270 Ohm
Maximum Turn-On Time [msec]	1/2 Cycle	1/2 Cycle
Maximum Turn-Off Time [msec]	1/2 Cycle	1/2 Cycle

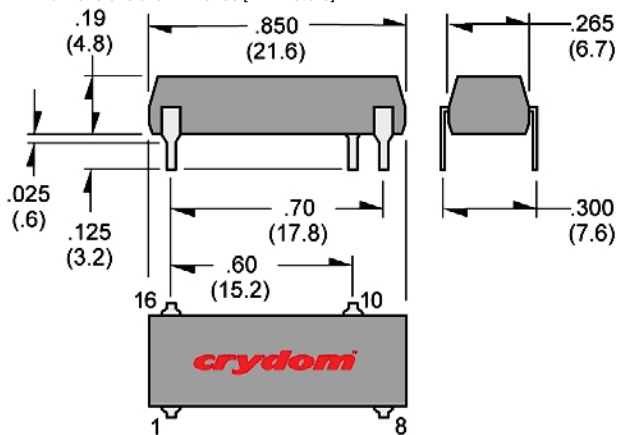
GENERAL SPECIFICATIONS

Description	Parameters
Dielectric Strength, Input/Output/Base (50/60Hz) ⁽²⁾	3750 Vrms
Minimum Insulation Resistance (@ 500 VDC) ⁽²⁾	10 ⁹ Ohm
Maximum Capacitance, Input/Output	2.0 pF
Ambient Operating Temperature Range	-30 to 80°C
Ambient Storage Temperature Range	-30 to 125°C
Weight (typical)	0.1 oz. (2.9g)
Encapsulation	Thermally Conductive Epoxy

MECHANICAL SPECIFICATIONS

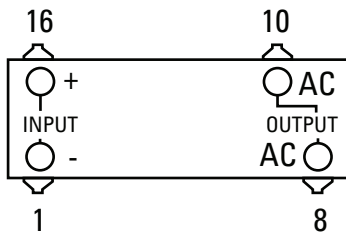
Tolerances: ±0.02 in / 0.5 mm

All dimensions are in: inches [millimeters]



PIN 8: AC LOAD
 PIN 10: AC LOAD
 PIN 16: +DC CONTROL
 PIN 1: -DC CONTROL

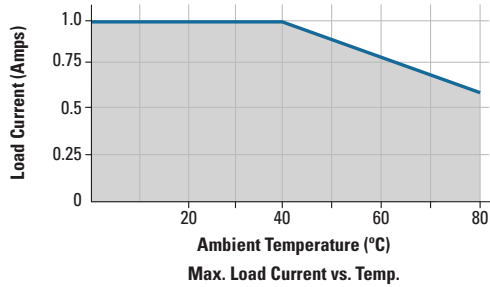
WIRING DIAGRAM



GENERAL NOTES

- ⁽¹⁾ All parameters at 25°C unless otherwise specified.
- ⁽²⁾ Dielectric and insulation resistance are measured between input and output
- ⁽³⁾ Off-State dv/dt test method per EIA/NARM standard RS

THERMAL DERATE INFORMATION



AGENCY APPROVALS AND CERTIFICATIONS

UL E116950
CSA LR81689



WARNINGS



RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE

- The product's side panels may be hot, allow the product to cool before touching
 - Follow proper mounting instructions including torque values
 - Do not allow liquids or foreign objects to enter this product
- Failure to follow these instructions can result in serious injury, or equipment damage.**



HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Disconnect all power before installing or working with this equipment
 - Verify all connections and replace all covers before turning on power
- Failure to follow these instructions will result in death or serious injury**

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Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA.

CONTACT US

Americas

+1 (877) 502 5500 – Option 2
sales.crydom@sensata.com

Europe, Middle East & Africa

+44 (1202) 416170
ssr-info.eu@sensata.com

Asia Pacific

sales.isasia@list.sensata.com
China +86 (21) 2306 1500
Japan +81 (45) 277 7117
Korea +82 (31) 601 2004
India +91 (80) 67920890
Rest of Asia +886 (2) 27602006
ext 2808

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